



A.D. 1816 N^o 4009.

S P E C I F I C A T I O N

OF

JAMES YOUNIE.

APPARATUS TO PROMOTE THE ESCAPE OF
SMOKE FROM CHIMNEYS.

L O N D O N :

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Apparatus to Promote the Escape of Smoke from
Chimneys.

YOUNIE'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JAMES YOUNIE, of Theobald's Road, Red Lion Square, in the County of Middlesex, Ironmonger, send greeting.

WHEREAS His present Majesty King George the Third, by His Letters
5 Patent under the Great Seal of Great Britain, bearing date at Westminster,
the Twenty-third day of March last past, did give and grant unto me, the said
James Younie, His especial licence, full power, sole privilege and authority, that
I, the said James Younie, my executors, administrators, and assigns, and such
others as I, the said James Younie, my executors, administrators, or assigns,
10 should at any time agree with, and no others, from time to time and at all times
thereafter during the term of years therein expressed, should and lawfully might
make, use, exercise, and vend, within England, Wales, and the Town of
Berwick upon Tweed, my Invention for "THE PREVENTION OR CURE OF SMOKEY
CHIMNIES;" in which said Letters Patent there is contained a proviso obliging
15 me, the said James Younie, by an instrument in writing under my hand and
seal, particularly to describe and ascertain the nature of my said Invention,
and in what manner the same is to be performed, and to cause the same to be
inrolled in His said Majesty's High Court of Chancery within four calendar
months next and immediately after the date of the said recited Letters Patent,
20 reference being thereunto had, will more fully appear.

Younie's Improvements in the Prevention or Cure of Smoky Chimneys.

NOW KNOW YE, that in compliance with the said proviso, I, the said James Younie, do hereby describe and ascertain the nature of my said Invention, and the manner in which the same is to be performed, as follows, that is to say :—

My Invention consists in a moveable head or cap, made of iron, tin, copper, 5 or any other metal that will suit the purpose, placed over the chimney top, and so suspended as to have a center of motion only as is seen in the mariner's compass, instead of an axis of motion like other contrivances for a similar purpose. From this peculiarity it results that, instead of turning horizontally like the others, according to the direction of the wind, my hood or cap 10 need not to turn at all, but when acted upon by the wind simply dips its windward edge to the chimney pot, raising the opposite edge in the same degree, and thus forming a large open mouth to leeward, from which the smoke issues. The conical shape which I give to the cap throws off or splits the current of air so completely that a kind of vacuum or diminished 15 pressure is produced to leeward, and thus a degree of suction is effected from the chimney ; not only therefore does the cap absolutely prevent smoking from any action of the wind upon the chimney top, but it exerts an influence to overcome other hurtful causes which may exist in the construction of the chimney below. All other contrivances require much more force to move them than 20 mine, which has the friction confined almost to one point, and therefore when the wind is gentle they are often seen standing in all directions, some with their mouths directly open to the wind, and consequently sending the smoke down the chimney instead of favoring its escape therefrom ; but my cap naturally hangs horizontally when the wind is so weak as not to affect it, and 25 on that account it never can have an injurious influence. Even in high winds the common contrivances, in their irregular wheeling motions, often turn round so much that the wind blows for a moment into the open mouth, and in that moment at one puff sends the whole chimney full of smoke into the apartment below. There are some situations of chimnies in which, from the form of the 30 adjoining roofs, a strong upward current of air is produced when the wind blows from particular quarters ; as in such cases the wind might get under the edge of the cap and raise it instead of depressing it, this must be guarded against. Sometimes a simple horizontal rim fixed round the mouth of the chimney pot answers the purpose ; in others this rim is made moveable, so that 35 the wind lifts its edge to meet the descending edge of the cap. The moveable rim is supported from a center like the cap itself, and by means of a rod descending from the cross bar of the cap, and connected with a similar rod rising from the cross bar of the rim, any motion in one produces a correspond-

Younie's Improvements in the Prevention or Cure of Smoky Chimneys.

ing motion in the other, and their windward edges will always meet. The rim may be made in various ways, either plain or inclining upwards all round, appearing like an inverted cap with its top hid in the chimney pot.

5 In witness whereof, I, the said James Younie, have hereunto set my hand and seal, the First day of July, in the year of our Lord One thousand eight hundred and sixteen.

JAS^s YOUNIE. (L.S.)

10 **AND BE IT REMEMBERED**, that on the same First day of July, in the year above mentioned, the aforesaid James Younie came before our Lord the King in His Chancery, and acknowledged the Specification aforesaid, and all and everything therein contained, in form above written. And also the Specification aforesaid was stamped according to the tenor of the Statute in that case made and provided.

J. CAMPBELL.

Inrolled the Second day of July, in the year above written.

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